

2012 Outfall 001 Flow and Effluent Chemistry Data  
Shell Distribution Terminal  
Seattle, Washington

| Month  | Date Sampled       | Date Sampled         |                           | Monthly Estimated Flow (gallons) |            |             |           | pH  | TSS<br>(mg/L) | Oil & Grease<br>(mg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | BTEX<br>(µg/L) | TPH-G<br>(µg/L) | BOD<br>(mg/L) | Zinc<br>(µg/L) | Lead<br>(µg/L) | Copper<br>(µg/L) |
|--|--------------------|----------------------|---------------------------|----------------------------------|------------|-------------|-----------|---|---------------|------------------------|-------------------|-------------------|------------------------|-------------------|----------------|-----------------|---------------|----------------|----------------|------------------|
|  |                    | Estimated Flow (gal) | Type                      | Load Rack                        | Stormwater | Groundwater | Total     |   |               |                        |                   |                   |                        |                   |                |                 |               |                |                |                  |
| January-12   | January 4, 2012    | 986                  | Stormwater, process water | 23,439                           | 89,613     | 0           | 113,052   | 7.08  | < 10          | < 4.8                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | < 10            | < 4.0         | 20             | 9.9            | 4.4              |
| February-12  | February 10, 2012  | 1,900                | Stormwater, process water | 18,479                           | 40,646     | 0           | 59,125    | 7.25  | < 5.0         | < 5.4                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | < 10            | < 4.0         | 36             | 7.5            | 7.1              |
| March-12   | March 5, 2012      | 591                  | Stormwater, process water | 18,316                           | 337,725    | 50          | 356,091   | 7.58  | < 10          | < 4.7                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | 22              | < 4.0         | 28             | 6.5            | 6.6              |
| April-12   | April 16, 2012     | 834                  | Stormwater, process water | 25,017                           | 109,132    | 0           | 134,149   | 7.18  | < 5.0         | < 5.1                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | < 10            | < 4.0         | 40             | 3.5            | 6.6              |
| May-12   | May 3, 2012        | 25,121               | Stormwater, process water | 7,988                            | 206,971    | 0           | 214,959   | 6.96  | < 5.0         | < 5.4                  | < 0.15            | 0.15              | < 0.15                 | < 0.30            | 0.15           | < 10            | 24            | 150            | 190            | 15               |
|  | May 10, 2012       | 258                  | Stormwater, process water | –                                | –          | –           | –         | 7.16  | –             | –                      | –                 | –                 | –                      | –                 | –              | –               | –             | 39             | 4.1            | 6.9              |
| June-12  | June 5, 2012       | 202                  | Stormwater, process water | 6,066                            | 125,500    | 50          | 131,616   | 6.99  | 5.2           | < 4.7                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | 17              | < 4.0         | 98             | 10             | 10               |
|  | June 14, 2012      | 202                  | Stormwater, process water | –                                | –          | –           | –         | 6.98  | –             | –                      | –                 | –                 | –                      | –                 | –              | –               | –             | 57             | –              | –                |
| July-12  | July 12, 2012      | 25                   | Stormwater, process water | 784                              | 6,465      | 0           | 7,249     | 6.89  | < 5.0         | < 5.4                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | < 10            | < 4.0         | 14             | 1.8            | 9.2              |
|  | July 20, 2012      | 2,964                | Stormwater, process water | –                                | –          | –           | –         | 7.15  | –             | < 4.8                  | 2.3               | 0.36              | 0.58                   | 4.17              | 7.41           | 43              | –             | –              | –              | –                |
| August-12  | August 14, 2012    | 0                    | –                         | 0                                | 0          | 0           | 0         | Not sampled in August due to lack of rainfall/runoff    |               |                        |                   |                   |                        |                   |                |                 |               |                |                |                  |
| September-12   | September 30, 2012 | 0                    | –                         | 0                                | 0          | 0           | 0         | Not sampled in September due to lack of rainfall/runoff |               |                        |                   |                   |                        |                   |                |                 |               |                |                |                  |
| October-12   | October 15, 2012   | 11,443               | Stormwater, process water | 21,010                           | 476,763    | 0           | 497,773   | 7.23  | < 5.0         | < 5.0                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | 10              | < 4.0         | 31             | 23             | 15               |
| November-12  | November 12, 2012  | 3,664                | Stormwater, process water | 4,148                            | 827,147    | 0           | 831,295   | 7.29  | 5.8           | < 4.9                  | < 0.15            | < 0.15            | < 0.15                 | < 0.30            | ND             | < 10            | < 4.0         | 31             | 43             | 6.0              |
| December-12  | December 19, 2012  | 103,889              | Stormwater, process water | 3,510                            | 588,870    | 50          | 592,430   | 6.63  | 58            | < 5.6                  | < 0.15            | < 0.15            | 0.6                    | 2.9               | 3.5            | 21              | < 4.0         | 190            | 200            | 18               |
|  | December 26, 2012  | 13,693               | Stormwater, process water | –                                | –          | –           | –         | –   | –             | < 5.2                  | –                 | –                 | –                      | –                 | –              | –               | –             | –              | –              | –                |
| Annual Totals:   |                    |                      |                           | 128,757                          | 2,808,832  | 150         | 2,937,739 |   |               |                        |                   |                   |                        |                   |                |                 |               |                |                |                  |
| Notes: All samples analyzed by Test America, Tacoma, Washington.<br>B = detected in laboratory blank |                    |                      |                           |                                  |            |             |           |   |               |                        |                   |                   |                        |                   |                |                 |               |                |                |                  |

**2012 Outfall 002 Flow and Effluent Chemistry Data  
Shell Distribution Terminal  
Seattle, Washington**

| Month   | Date Sampled      | Estimated Flow On<br>Day Sampled (gal)       | Flow<br>Type | Monthly Stormwater<br>Flow (gallons) | pH   | Oil & Grease<br>(mg/L) |
|---|-------------------|--|--------------|--------------------------------------|------|------------------------|
| January-12  | January 4, 2012   | 91   | Stormwater   | 37,579                               | 7.43 | 6.8                    |
| February-12   | February 10, 2012 | 503  | Stormwater   | 16,197                               | 7.38 | < 5.8                  |
| March-12  | March 5, 2012     | 6,988  | Stormwater   | 132,255                              | 7.02 | < 4.9                  |
| April-12  | April 16, 2012    | 91   | Stormwater   | 43,412                               | 7.19 | < 5.0                  |
| May-12  | May 4, 2012       | 9,907  | Stormwater   | 87,585                               | 6.98 | < 5.2                  |
| June-12   | June 5, 2012      | 0  | Stormwater   | 49,813                               | 7.07 | < 4.9                  |
| July-12   | July 20, 2012     | 0  | Stormwater   | 1,405                                | 7.00 | < 4.7                  |
| August-12   | Not sampled       | Not sampled in August; no rainfall/runoff    |              |                                      |      |                        |
| September-12  | Not sampled       | Not sampled in September; no rainfall/runoff |              |                                      |      |                        |
| October-12  | October 16, 2012  | 4,290  | Stormwater   | 187,426                              | 8.11 | < 4.7                  |
| November-12   | November 12, 2012 | 1,405  | Stormwater   | 319,447                              | 6.98 | < 4.8                  |
| December-12   | December 19, 2012 | 40,426                                       | Stormwater   | 231,743                              | 6.72 | < 5.5                  |
| Total Annual Flow:  |                   |  |              | 1,106,862                            |      |                        |
| Note: All samples analyzed by Test America, Tacoma, Washington. |                   |  |              |                                      |      |                        |